

TECHNICAL DATA

LH 65 Gear, LH 87 Gear and LH 108 Gear

Machine Type		LH 65 Gear		LH 87 Gear			LH 108 Gear				
Measuring Ranges, Weights											
X	[mm]	650		800			1000				
Measuring ranges [mm]	Y	[mm]	750	1200	1000	1500	2000	1200	1600	2000	3000
Z	[mm]	500		700			800				
Machine weight	[kg]	1410	1965	2345	3280	4410	4550	5610	6995	10460	
Permissible part weight (on granite)	[kg]	500	700	800	1000	12000	2000	2250	2400	3300	
Rotary table diameter*	[mm]	300		400			400				
Rotary table loading*	[daN]	180		400			400				
Workpiece diameter	[mm]	600		800			1000				
Module range	[mm]	0,5 - 20		0,5 - 20			0,5 - 25				
Measurable face width	[mm]	400		500			600				
Measurable face width	[°]	< 90									
General Requirements											
Electrical		Single-phase AC 1P+N+PE, 115/230 V ± 10 %, 50/60 Hz, max. 1000 VA, acc. to EN 60204/1									
Compressed air		Supply pressure 6-10 bar, pre-filtered, quality according to ISO 8573-1: Class 4 or better									
Air consumption passive	[$\frac{Nl}{min}$]	Ø 35	max. 42 (9 $\frac{l}{min}$)	Ø 52	max. 71 (15 $\frac{l}{min}$)	Ø 67	max. 91 (19 $\frac{l}{min}$)				
Air consumption active	[$\frac{Nl}{min}$]	Ø 56	max. 84 (17 $\frac{l}{min}$)	Ø 76	max. 120 (24 $\frac{l}{min}$)	Ø 91	max. 137 (28 $\frac{l}{min}$)				
Air consumption rotary table	[$\frac{Nl}{min}$]	141-183 (max. 37 $\frac{l}{min}$)		141-183 (max. 37 $\frac{l}{min}$)			141-183 (max. 37 $\frac{l}{min}$)				
Measuring Accuracy											
Accuracy	Gear Metrology		Gear inspection according to VDI/VDE 2612/2613, Group I (with a maximum variation of the reference temperature ± 2K)								
	Coordinate Measuring Machines		Acceptance and confirmation in accordance with ISO 10360-2								
Operating Environment											
Gear Metrology	Operating temperature	[°C]	15 - 30								
	Temperature range		20 °C ± 2 K, ΔT: 1 K/h, 1 K/m, 2K/d								
Coordinate Measuring Machines	Operating temperature	[°C]	15 - 30								
	Temperature range for E _L , MPE		20 °C ± 2 K, ΔT: 1 K/h, 1 K/m, 2 K/d								
Relative humidity	[%]	40 - 70									
Dimensions											
L	[mm]	1720	2190	2080	2670	3170	2690	3120	3520	4550	
External dimensions	B	[mm]	1380		1700			2100			
H	[mm]	2600		2962			3210		3220	3180	

* Various rotary table versions on request.